1st & Part Bill

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

60840

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of work :- Improvements & asphalting to main & Cross road & at Soap factory Layout, M.S. Ramaiah Layout, Siddeshwara Layout, Bhuvaneshwari Layout & Vishweshwaraiah Layout in Bagalagunte in ward no. 14 (5-works) Package No. DZ 2017-18 (04)						
	Name of Agency :- M.S. Venkatesh						
	Est Cost. Rs. 250.00 Lakhs						
	Jobe Code no :- 014-18-000061, 014-18-000062, 014-18-000063 & 014-18-000065						
	Work order No :- EE/DD/WO/304/2018-19 dated :02.02.2019						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Measurement recorded on :- 20.02.2019						
	Item NO: 2 Removing BG Slab of Drain & Stacking (P-no 25. I.no. 5.32 of KPWD S.R 2016-2017)					Total Qty 492.75 m^2 @ TR 73.59	36261.47/=
	Item NO: 3 Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters & an average lift upto 0.5m, excavated surface leveled & sides neatly dressed the disposed earth to be leveled neatly after breaking of clods Complete as per specifications. NORTH / chapter 3					(P-141/19.1).	

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M. A. R. 57 (Rule 116) **No. D**

Measurement Book

Serial No. .....

60841

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions			Contents	Reference to last Measurement
			Length	Breadth	Depth		
1	2	3	4	5	6	7	8
				Total Qty		2456.15 m^3	
				@ TR		97.32	239032.03/-

Item No : 5 KSRB 4-1-2: Providing & laying in Position plain Cement Concrete of mix 1:3:6 with opc cement @ 220 kgs with 40mm & down Size graded granite metal coarse aggregates @ 0.892 cum & fine aggregate @ 0.465 cum machine mixed, machine mixed, Concrete laid in layers not exceeding 15cms thick, well compacted in foundation including cost of all material's, labour, Hire of machinery curing complete as per Specifications & Specifications No. KBS 4.1, 4.2.

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
				Total Qty		86.46	m^3
				@ TR		6269.11	542027.25/=
	Item No: 6 KSRB 5-14 : Providing & Constructing precast concrete Solid blocks with Compressive strength not less than 3.5 Newton Per sqmm with cement mortar 1:4 masonry (quion, Jamb, closer blocks) with Solid Concrete blocks of size 40 x 20 x 20 cms Conforming to IS: 2185/1965 in superstructure including cost of material & , labour charges . & scaffolding . curing Complete as Per Specifications.						
				Total Qty		970.80	m^2
				@ TR		1112.11	1079636.39/=

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M. A. R. 57 (Rule 116) **No. D**

Measurement Book

60842

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item NO:7 Providing & Constructing granite/trap/bo Salt fix Stone masonry in foundation with Cement mortar 1:8 Stone Hammered dressed in Courses not less than 20 cms high, bond stones at two m part in each course including Cost of materials, labour, Curing Complete as per Specifications.					Total Qty 34.74 m^3 @ TR 4969.47	172639.39/=
	Item NO:8 KSRB 4-1-6:- Providing & laying in position Plain Cement Concrete of mix 1:2:4 with Cement @ 240kgs						20mm & down

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Size graded granite metal coarse aggregates @ 0.69 cum & fine aggregates @ 0.459 cum machine mixed, Concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, Plinth & cills including Cost of all materials, labour Hire of machinery, curing complete as Per Specifications. Specification No. 1 & 3 4.1, 4.2,					Total Qty 60.80 m^3 @ TR 6457.82 = 392635.46/-	
	Item No. 26 Refixing B-S. Slab of Drain & Pointing in CM (1:3) P.No. 25, I.No. 5.33 of ICPWD S.R 2016-17)					Total Qty 492.75 m^2 @ TR 90.20 = 44446.05/-	

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M. A. R. 57 (Rule 116) **No. D**

Measurement Book

60843

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item NO: 27 Providing precast Slab of 100mm Thick including cost of all materials, labour, curing, transportation, loading, unloading etc., Complete as per the direction of engineer in charge Data Rate.						
					Total Qty	1508.85 m^2	
					@TR	2053.53	3098468.74/=
	Item NO: 9 Providing & fixing pre cast Solid Concrete Kerb Stone made out of CC 1:2:4 with top & bottom width 114 & 165 mm respectively 400mm high & 450 mm in length finished with Cm 1:3 plastering & finishing cutting, including from work, curing including						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Cost of all materials, labour, hire charges of machinery, loading unloading lead & lift, transportation etc, Complete. etc, Complete.						
					Total Qty	2225.00 Nos	
					@ TR	432.03	961266.75/=
	Item NO: 10 KSRRB 800 - Painting two coats after filling the Surface with Synthetic enamel paint in approved shades on new plastered Concrete Surface, with materials, labour Complete as per Specifications MORTH Chapter 8.						
					Total Qty	452.70 m^2	
					@ TR	71.21	32236.77/=

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M. A. R. 57 (Rule 116) **No. D** 60844

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item NO: 11 KSRRB 300-58 Compaction of original ground with maximum of 6 Passes of 8 to 10 tonnes Power roller including filling in depression occuring during rolling including Cost of all Labour Hom of machinery Complete as per Specifications. MORTH/Chapter 3. Total Qty 688.50 m^2 @ TR 5.93 4082.81/-						
	Item No: 12 KSRRB M 300-55, Construction of Shoulders with approved material Gravel/Murum Sub-graded & earthen leads transporting to site Spreading, grading to required slope &						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	and Compacted to meet Specifications (including by vibratory roller)	requirement of Table MORTH Specification				Cost of earth, watering charges & Compact	
						NO. 300-2	
						NO. 305.	
						Total qty 103.28 m^2	
						@ TR 392.86	40574.58/-
	Item NO: 13 KSRRB M400-6.1 Construction of granular sub-base by Providing close graded material, mixing in a mechanical mix plant at one, Carriage of mixed material to work site, Spread in uniform layers motor grader on prepared surface & Compacting with vibratory Power roller to achieve the desired density Complete as per Specification. A Plant mix method. close graded granular Sub-base material as per 400-1 for Grading -II material.						

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M. A. R. 57 (Rule 116) **No. D**

Measurement Book

60845

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
				Total Qty		172.13 m^3	
				@ TR		1731.66	298070.64/=
	Item No: 14 Providing, laying, spreading & Compacting graded stones aggregates to wet mix macadam specifications including Pre-mixing the material with water at OMC in mechanical mix plant carriage of mix method of tipper to site, Laying in uniform layers with Paver in Sub/base/ Base Course on the well prepared surface & Compacting with Vibratory rollers to achieve the desired density Complete as per MORTH Specification No. 406, etc. with all lead & lift & as per directions of the						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Engineer - in-charge (I.NO. 20.18 P.NO. 157 of KPWD S.R (2016-17).						
						719.18 m^3	1423775
				Total Qty		1979.72	
				@ TR			1423779.98
	Item NO: 20 KSRRB 3000 filling Pot-holes & Patch Repairs with Bituminous Concrete, 40mm KSRRB m3006-5 Removal of all failed material, trimming of completed excavation to provide firm vertical faces Cleaning of Surface, applying tack coat on the sides & base of excavation at 2.5 kg / 10sqm as per clause 500.3, back filling the pot holes with hot bituminous materials as per clause 500.4 Compacting, trimming & finishing the Surface to form a smooth Continuous Surface all as per clause 3004.2 complete as per Specifications MORTH						

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M. A. R. 57 (Rule 116) **No. D**

Measurement Book

60846

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth / Depth		
1	2	3	4	5 / 6	7	8
	Specification No. 3004.2.			Total Qty	369.68 m^3	
				@ TR	338.26	125047.96/-
	Item No: 18 KSRRB M 500-6 - Providing & applying Primer Coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface mechanical means Complete as Per Specifications. MORTH Specification No. 502.			Total Qty	688.50 m^2	
				@ TR	30.86	21247.11/-

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No: 19 cleaning the existing black topped surface with brooms, soft brushes & finally dusting with old gunny bags & /or Compressed air to receive bituminous treatment including cost of all materials labour, Hire of machineries Complete as per Specification					Total Qty 14874.70 m^2 @ Rs 3.56	52953.93/-
	Item No: 21 RSRRB 500-7. Providing & laying tack coat using 80/100 Penetration grade bitumen (VG10) on the Prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boilers fitted with Spray set (excluding cleaning of road surface) including cost of all materials, labour, Hire of machineries Complete as per Specifications, MoRTH, chapter 5.						

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M. A. R. 57 (Rule 116) **No. D**

Measurement Book

60847

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
				Total qty		20701.80 m^2	
				@ TR		13.06	270365.51/=
	Item NO:22 KSRRB 500-11. Providing & laying bituminous macadam on Prepared Surface with Crushed Coarse aggregates as per design mix formula for base / binding Course including loading of aggregates with F.E loader hot mixing of Stone aggregates & bitumen in hot mix plant, transporting the mixed material in tipper to paver finisher to the required level & grade, rolling by power to achieve the desired density but excluding Cost of Premix / tack Coat including lead, lift & Cost of all materials labour, Hire of machinery Complete as per specifications using						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	40/60 TPH Capacity H.M.P with mechanical paver Gr-II (50mm to 75mm with 3.3 % VG-30 Bitumen.						
					Total Qty	464.95	m^3
					@TR	6210.95	2887781.20
	Item No: 23 Providing & laying bituminous Concrete 40mm thick with hot mix plant using Crushed aggregates of specified grading Premixed with bituminous binder & filler transporting the hot mix to work site, laying with a paver finisher to the required grade level & alignment rolling with Smooth wheeled vibratory & Tandeem rollers to achieve the desired compaction as per MORTH Specification clause no. 500.9 Complete in all respects Complete as Specification using 40/60 TPH Capacity H.M.P with mechanical						

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M. A. R. 57 (Rule 116) **No. D**

Measurement Book

60848

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Paving Gr-II (30mm to 45mm) with 6% VG-30 Bitumen MORTH Specification No. 509 (Sl. No. 21.22.6, Page No. 164).						
	Total Qty					622.53 m3	
	@ TR					15283.48	95,14,424.80/=
	Item No: 24 Add Plastic to Bituminous Concrete 8% of Bitumen.						
	Total Qty					422.68 kg	
	@ TR					30.23	12,777.47/=

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No: 25 Road marking with Hot Applied thermoplastic Compound with reflectorising glass beads on bituminous Surface providing & laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per Sqm area thickness of 2.5 mm ie exclusive of surface applied glass beads as per IRC 35. the finished surface to be level uniform & free from streaks & holes Complete as per Specifications MORTH Specifications No. 803 P.No. 181. It.No. 24.15 of KPWD S.R 2016-17						
					Total Qty	535.58 m^2	
					@ TR	607.68	325461.25/-

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1st and Part

Audited and admitted for Rs. 2186732=00

Passed by Cheque for Rs. 2076197=00

(Serial No. –)

Name of work ... 110535=00

Name of Contractor of nature of Agency ...

Date of commencement of work ...

Accounts Superintendent

Date ...

Executive Engineer

B.B.M.P. Dasarahalli Division

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

60849

From ... To ...

1	2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item no : 28 Lead charges for Conveying the Excavated earth including loading & unloading upto 10kms as per directing.						
				Total qty		24515 m³	
				@ TR		118.69	29T519.85/2
							291520 = 00
				Grand Total		=	2,18,66,737.38
							2186732=00

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಜಬಿವಂಪಿ
ಬೆಂಗಳೂರು

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certified that the work done Satisfactorily Certified that the debris removed from the work spot.						

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

ಪಂ.ಪಕ್ಷ.ಎಂಜಿನಿಯರ್

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M. A. R. 57 (Rule 116) No. D

Measurement Book

Serial No. .....

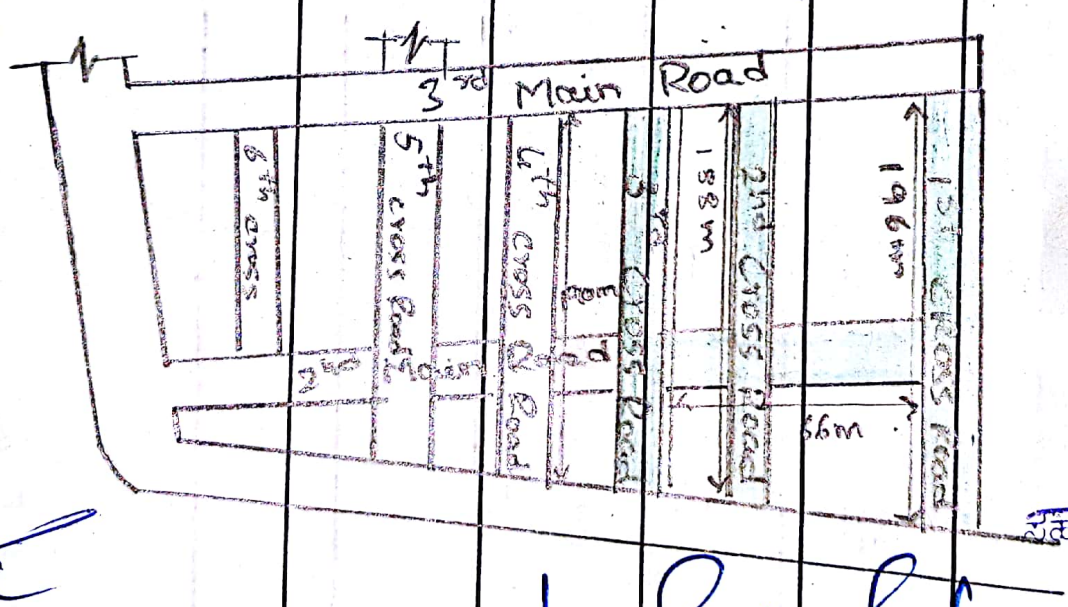
Name of work ..... From ..... To .....

60850

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth / Depth		
1	2	3	4	5 / 6	7	8



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MEASUREMENT BOOK

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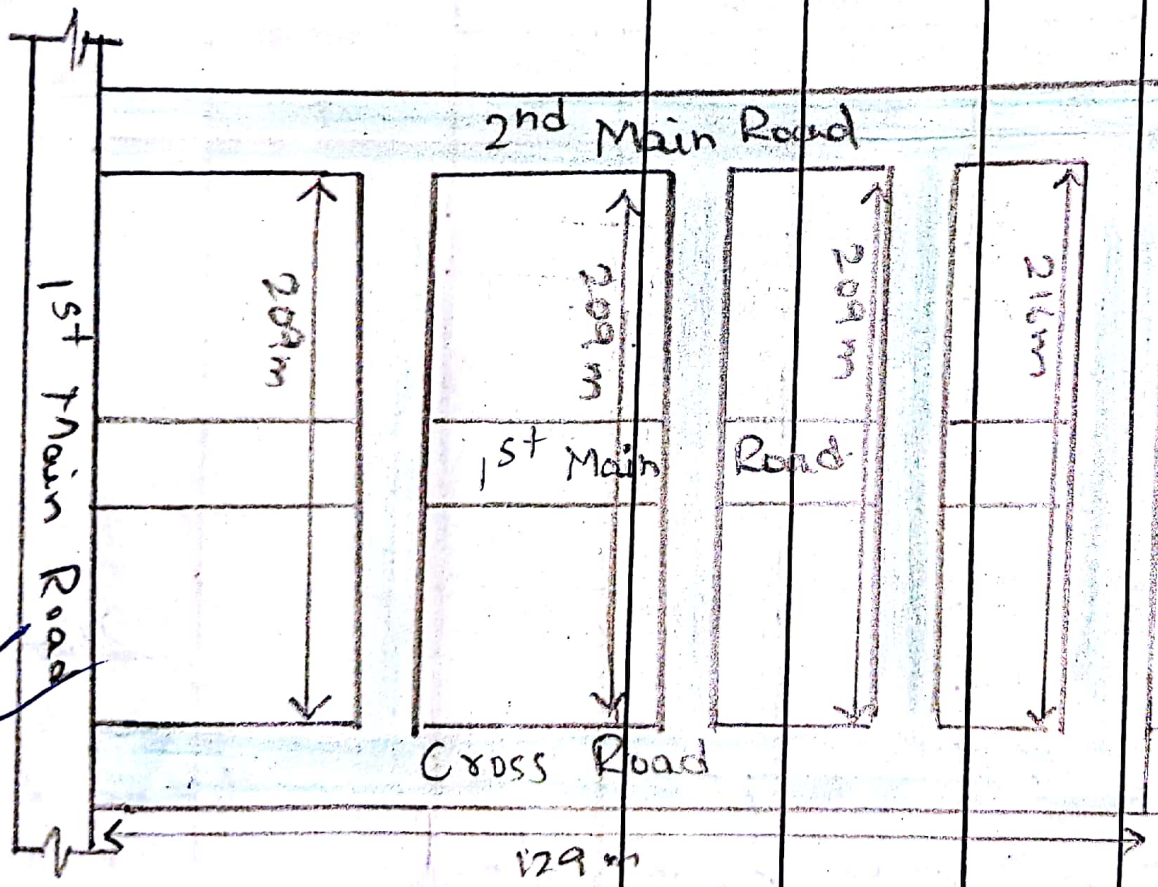

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→ Asphaltin

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M. A. R. 57 (Rule 116) No. D
Measurement Book

Serial No. .....

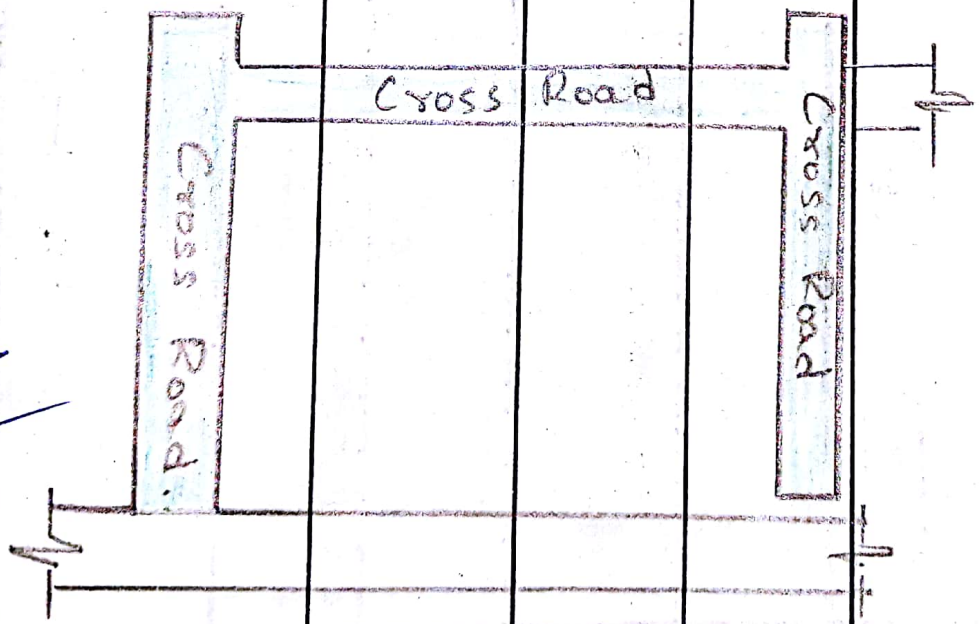
60851

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



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Asphalting

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ಮಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

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MEASUREMENT BOOK

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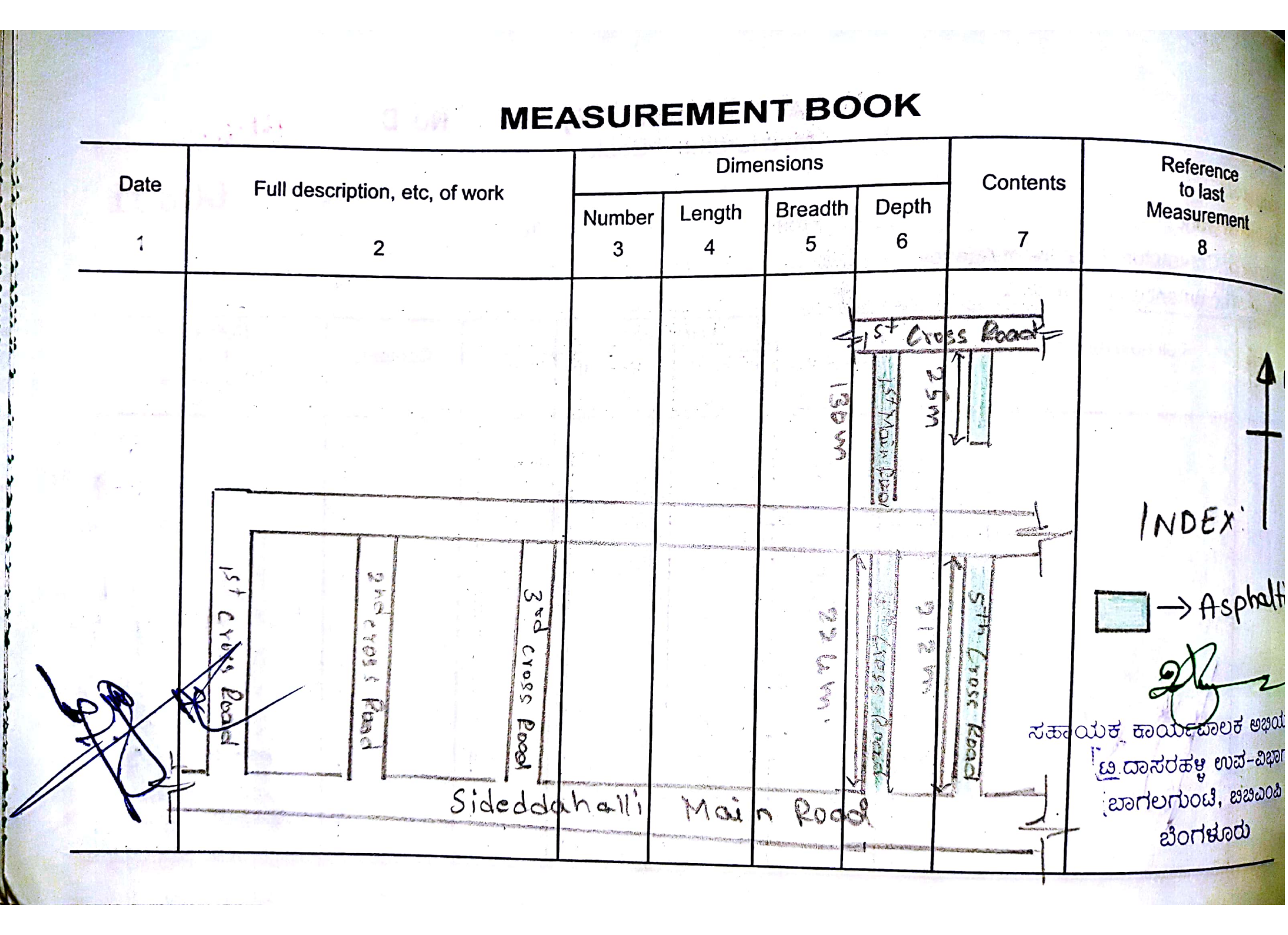
1	2	3	4	5	6	7	8



ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯ
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾ
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